

# FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON, ALBERTA

FEBRUARY 5, 1976

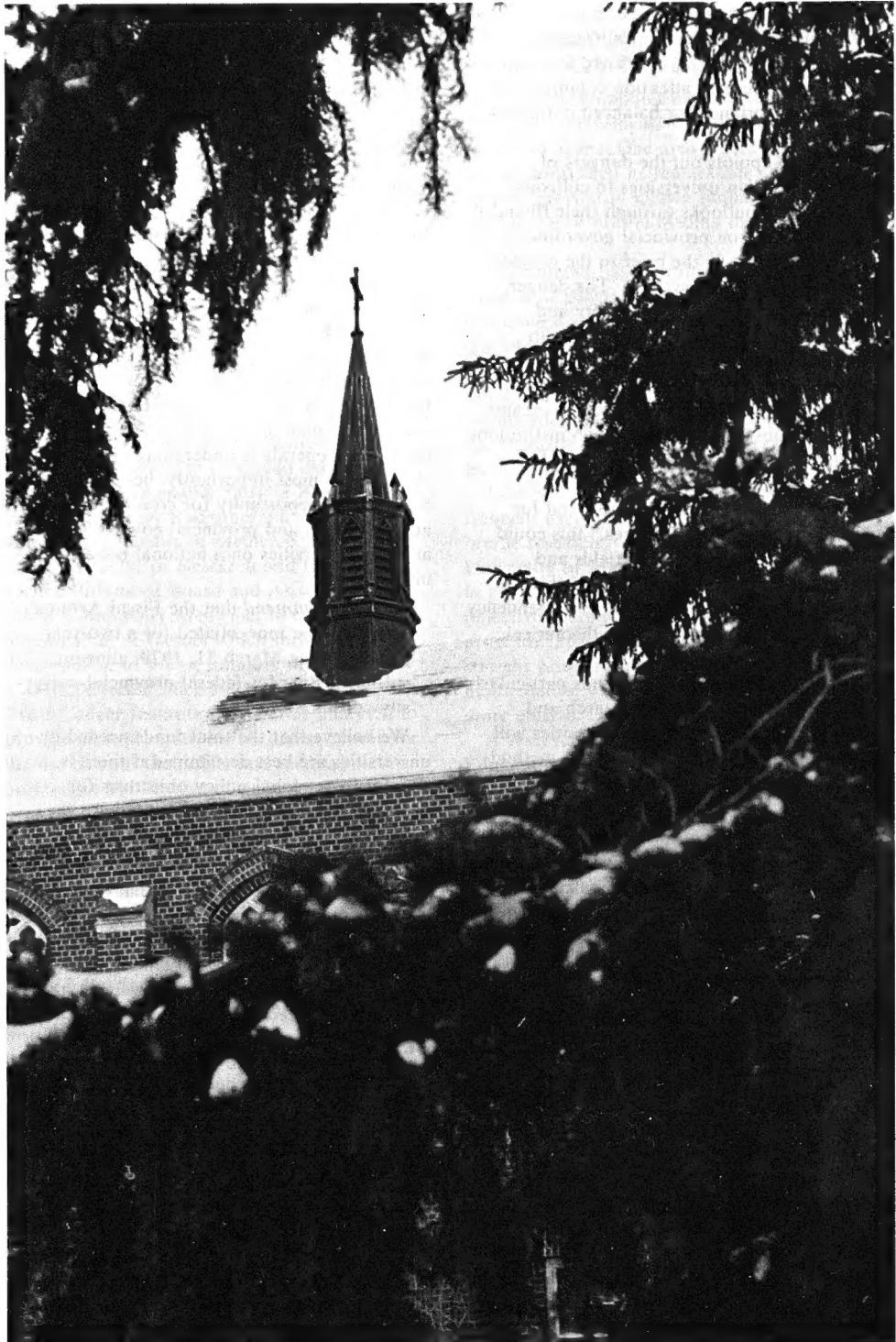
## THE AUCC ON UNIVERSITY FINANCING

The Association of Universities and Colleges of Canada (AUCC) is a national organization of degree-granting institutions. Its membership includes sixty-five universities and colleges. Representing the concerns of the university community in Canada, the AUCC has prepared a brief, which is addressed to the Prime Minister and to the Premier of each province. It concerns proposed discussions related to the expiry of the *Federal-Provincial Fiscal Arrangements Act* next year.

This Act, as it pertains to post-secondary education, came into effect in March, 1967, for an initial five-year period. With two extensions in 1972 and 1974, when a fifteen percent ceiling was imposed on annual increases in expenditures for operating costs in post-secondary education, the Act is due to expire in March, 1977. Among the concerns of the AUCC is the federal government's apparent reluctance in making any commitment to meet even previous levels of assistance.

In its brief, the AUCC has called for a two-year extension to the present cost-sharing arrangements between the federal and provincial governments for the financing of universities. This would allow time for the development of national objectives, which the AUCC feels must precede any meaningful changes in the methods or source of funding of universities. To determine these objectives, the AUCC wishes to express its "national university voice" in proposed consultations with its members, the provincial governments, and the federal government.

Under the present financial arrangements, the universities receive most of their funding from government grants. While the federal and provincial governments share the financial burden of post-secondary education, the bulk of the federal government's portion is transferred to the provincial governments, who then channel it to the universities and colleges. The AUCC has observed that "Federal funding under the Fiscal Arrangements Act is more and more looked on by the provincial governments as assistance for the operation of provincial universities for provincial purposes." According to the brief, this had an effect on the universities' relations with governments. "The universities, seeing the extent to which the provincial governments have become the



source or route of their revenues (including the regulation of their fees), have come to focus their attention upon their relations with the provincial governments as their primary interface with government." The AUCC suggests that the federal government, in leaving the control for distributing funds used for post-secondary education in the hands of the provincial governments, has permitted "the provincialization of universities to such a degree that there is little assurance that national objectives will receive attention commensurate with their importance for balanced university development."

The AUCC points out the dangers of allowing Canadian universities to cultivate such parochial outlooks through their financial over-dependence on provincial governments. Reference is made in the brief to the development of ten university systems. The danger seen in this is "insufficient diversity and insufficient concentration of resources to produce true centres of excellence." The AUCC suggests that in many fields "a large number of institutions with small, mediocre programs are a poor substitute for one or two institutions with first-rate programs." In research, for example, where "there is no adequate mechanism for making national choices and for concentrating national resources," this could lead to "total neglect of some fields and proliferation in others." Evidence of this can be seen in the provincial governments' tendency to support applied research over theoretical research.

One danger that the AUCC finds particularly disquieting is that "both the research and teaching efforts of Canadian universities will suffer if changes are not made in the methods of financing university research." The Science

Council of Canada recognized this in its 1969 report on the indirect costs of research. Such costs include physical facilities, library holdings and services, and support staff. The reason given for the problem in covering indirect costs of research is that provincial grants given to the universities are based on enrolment and do not reflect the volume of federally supported research in any given university. Because no funds are specifically provided for these costs by either the federal or provincial governments, they are paid through important marginal sacrifices in other areas such as teaching programs, non-assisted research, or administrative services. Thus, either research or teaching must suffer.

#### Conclusions and Recommendations

*The following are the conclusions and recommendations of the AUCC:*

In view of the major changes in the economic climate, in forecasts of student enrolment and in Canadian thinking regarding national and international development, in view of the need for stability in the higher education system while the climate in which Canadian universities operate is undergoing profound change and, most importantly, because there has been no opportunity for consultation among federal and provincial governments and the universities on a national policy for universities:

1. We recommend that the Fiscal Arrangements Act be renegotiated for a two-year period ending March 31, 1979, allowing sufficient time for federal-provincial-university consultations.

We believe that the total funds needed by universities are best determined if there is consensus on global policy objectives for universities, set in consultation amongst the universities, the provincial governments and the federal government.

2. We therefore recommend that the federal government re-affirm its policy of participating fully in the financing of Canadian universities, and eliminate the 1972 restriction to unconditional payments, thus taking into account increased costs because of inflation and growth in student enrolment.

3. We recommend that consultations begin immediately amongst representatives of the universities, the provincial governments and the federal government with a view to establishing a national university policy consonant with the plans of the provincial and regional university systems. AUCC is prepared to initiate these consultations, beginning with a Conference which it will arrange in March.

Although we urge that major changes in the

methods of financing universities be deferred, we believe that certain changes have been analysed fully enough so that they need not be deferred, and we are prepared to elaborate on them in the consultations referred to in recommendation 3. Therefore,

4. We recommend that the federal government and the provincial governments, in consultation with the universities, identify existing and potential centres and programs of excellence in fields corresponding to national priorities and assure that resources are made available for their development through special grants.

5. We recommend that the federal government in consultation with the provinces and the universities support the further development of programs of university library and computer co-ordination and accessibility.

6. We recommend that the federal government provide sufficient new funds to the Granting Councils to permit them to:

(a) increase funds for the direct grants they make for research in the universities and

(b) add 35 per cent for indirect costs to the grants without any diminution in the number or size of such grants.

7. We recommend that both the federal and provincial governments cover full costs, direct (including all salaries) and indirect, of contract research undertaken for them by the universities.

Finally, we are conscious of the need for universities themselves to share the responsibility of making adjustments to the difficult economic period through which Canada, like the rest of the world, is passing. We therefore believe it is fitting that we conclude with a recommendation to ourselves, on which we will act. Therefore:

8. We recommend that the universities of Canada continue their efforts to share resources with a view to achieving greater efficiency and working collectively in the national, regional and provincial interests.

#### FATE OF AMDAHL COMPUTER UNCERTAIN

There is a good chance that the Amdahl 470V/6 computer, now in its sixty day acceptance period at Computing Services, may have to be returned. The problem is not technical; the Amdahl has proven to be just what the University needs. The problem is financial: how to pay for the 470 now that the Alberta Government will not. If the computer cannot be paid for by other means, the University will have to return it to Amdahl in May. The return of the 470V/6 would mean a

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reversion to the IBM 360/67 and a reversion to a situation the University cannot afford.

- To pay for the Amdahl 470V/6, the University requested \$4.4 million from the Department of Advanced Education and Manpower in the form of a capital grant. The computer was included in the Department's "A" budget for the University, but then was deleted. Now the University must find some other means of meeting the cost of the 470V/6.

If the 470 is sent back, the University will have to revert to using the IBM 360/67 which the Amdahl was to have replaced. The major reason that the 470 was to be purchased was the fact that the University needed immediately a computer which could handle campus workload demands. The 360/67 had reached more than its limit. It was only through the hard work of the staff at Computing Services that the 360/67 was able to work as efficiently as it did. Even so, many teaching and research projects had to be postponed or rejected simply because there was no computer time available. The IBM 360/67 was obsolete for this University's needs long ago. And the possibility of it handling future needs is out of the question.

- Computer systems are a major tool of many disciplines in the Faculties of Science, Engineering, Medicine, Business Administration and Commerce, and even in Arts. They will be the hardest hit by a loss of the 470V/6. That loss, however, should be the concern of the University as a whole. On a purely practical level, for example, one must remember that the Library uses approximately twelve percent of the computer time at present; the expansion and efficiency of the Library affects the whole University.

It is clear that the forced reversion to the IBM 360/67 would mean that the University of Alberta would become a second-rate institution. The IBM 360/67, which the University has used since 1970, is one of the smallest computers in use in a university in Canada, and is the smallest in Canada relative to our size. In data collected in a survey during 1970-72, the University of Alberta ranked twenty-third out of twenty-four

- Canadian universities in the percent of the operating budget which was spent on computer facilities. It ranked twenty-first of twenty-four in terms of the amount spent on computers in relation to the number of undergraduate students. In terms of expenditure per academic staff member, it ranked twenty-third of twenty-four. Considering the actual importance of computers to a university, these statistics are not very flattering. In the years since 1972, the situation has become worse.

The situation will become intolerable for those who rely on the computing facilities

here if the Amdahl 470V/6 is returned, according to John E. Bertie, Professor of Chemistry and a member of the GFC Computer Facilities and Policy Committee. Teaching and research will be affected detrimentally. Many first-rate scholars and researchers may decide to leave this University if their work is impeded by inadequate computing facilities. Graduate students will not find the University as appealing, and there will be difficulty in attracting first-rate people to the University. Standards of excellence will decline as a result. This, of course, will be most noticeable in those disciplines which use and need the computer, but the effects of the situation will be felt throughout the University community.

By comparing Alberta statistics with those from around the world, local trends (which might be unique to Alberta) may be detected and further investigations initiated which might give some clues to the cause of the disease.

## TECHNOLOGICAL ADVANCES IN BRAILLE PRODUCTION

How far the computer has extended man's limits of achievements would be a difficult matter to assess. One area where the computer has demonstrated its remarkable capacity to surpass previously known limitations is in the production of braille reading material for the blind.

A computer-based braille translating system capable of generating almost limitless copies of braille texts has been proven technically feasible. The implications of such a system for increasing the volume, variety, and rapidity of braille production were significant in capturing the interest of two members of the Department of Computing Services, Jim Bennett and John Stasiuk.

Messrs. Bennett and Stasiuk have had frequent exchanges with other centres for braille research, such as the one at the University of Manitoba, where work has been in progress for several years. Among their objectives here is the design of a computer program capable of translating not only straight printed prose, but scientific data and mathematics, which, so far, has proven to be more elusive.

A research grant from the Clifford E. Lee Foundation purchased the printer component which enables the computer to produce braille print. With this component, the computer can churn out more than 300 lines of braille transcript per minute.

To understand the computer's affinity for translating braille, it is necessary to look at the principles underlying the braille system. Each braille character consists of a braille cell. The cells, which neither resemble the letters of the alphabet nor correspond to them one for one, are made up of a possible six dots. The size and spacing of these dots within the braille cell as well as the height to which they are raised on the page are held to specified standards. The number and configuration of the dots determine the meaning.

The various configurations, including alphabetic and numeric characters, punctuation marks, and special symbols, are stored in the computer as a kind of dictionary. Translation is accomplished, one word at a time, by reference to this stored dictionary. At the output stage, once the braille characters have

been located in the dictionary, each character is checked against a series of rules covering the limitations placed on its usage.

John Stasiuk points out that there are at least one thousand exceptions to these rules which the computer has been programmed to recognize; there may be many more yet undiscovered. Much of the work on this project in Computing Services has to do with identifying these exceptions and programming the computer to respond to them.

After responding to the rules and their exceptions, the computer then responds to format codes indicating the length of line, the number of lines on a page, and so on.

There is little doubt that the computer system of braille translation is superior to all others in terms of efficiency, but it is nevertheless more costly. This is especially true when it is compared with the one-book-at-a-time braille transcribing done by volunteers. Although their services are free, these volunteers still require months of training to learn the braille code and years to become proficient at it. Those who have the time to contribute their services are rare. Data entry operators, on the other hand, are more readily available and require far less specific training. Furthermore, the operator need enter the printed text only once, and there is no limit to the number of copies that can be produced. The primary advantage that manual transcribing has over transcribing by computer is the lower cost of producing the initial copy.

Computers cannot compete for economy with the volunteer method of producing the initial copy of braille text. However, integration of blind school children into classes with sighted children and growing numbers of adults seeking higher education and employment in the competitive market are increasing the demand for braille reading material. The computer system, like no other, has shown a capacity to satisfy this demand.

It is clear that computer translation of braille is not only feasible, but it is more efficient than other known methods. When a computer has been developed with an optical scanner that can make use of the original printed text as direct input, it will become even more practical. In the meantime, it appears that the primary problem is not technology, but marketing.

#### **Board Report on Student Affairs**

A report was received from the President that, after studies had been made by a Board committee and two President's committees, the Board of Governors had approved the following action towards reorganization of student affairs departments on this campus:

1. *that* an Associate Vice-President (Student Affairs), reporting to the President, be appointed with effect from July 1, 1976;
2. *that* the President establish an Advisory Committee on Student Services;
3. *that* the initial function of the Advisory Committee on Student Services be to act as an advisory committee in the selection of an Associate Vice-President (Student Affairs);
4. *that* the Advisory Committee on Student Services prepare terms of reference for itself and submit them to the Board through the President for approval;
5. *that* the Advisory Committee consider the proposals submitted by various groups and committees, especially the one put forward by the Students' Union;
6. *that* the positions of Foreign Student Advisor, CIDA Co-ordinator, and CUSO Co-ordinator continue beyond the current year;
7. *that* the Campus Assistance Centre (Student Help) of the Students' Union be recognized as an integral element of student services at the University and receive Board support;
8. *that* an Acting Director of Student Counselling Services be appointed upon retirement of the present Director on August 31, 1976; and
9. *that* the position of Provost be terminated effective June 30, 1976.

However, it was pointed out by Council member Jean Lauber that, under section 39 of the Universities Act, General Faculties Council "has the general supervision of student affairs." The Chairman agreed that indeed the matter had gone in error to the Board without prior consultation with GFC.

It was moved and carried that the entire report on the proposed reorganization of student affairs be referred to Council. It was also agreed that convening of the proposed Advisory Committee on Student Affairs be delayed until Council had considered the report in full.

#### **Nominating Committee report**

Individuals have been elected to serve on GFC committees as follows.

*Review Committee for Chairman of the Department of Secondary Education:* Andrew S. French (Physiology), until June 1978.

*Review Committee for Dean of Collège Universitaire Saint-Jean:* R.B. McNab (Physical Education) and D.V. Parker (Secondary Education), both until June 1978.

*Review Committee for Chairman of the*

*Department of Community Medicine:* Charles W. Hobart (Sociology), until June 1978.

*Selection Committee for a Dean of Interdisciplinary Studies:* Diane Kieren (Household Economics); W.A.G. Voss (Electrical Engineering); D.W.R. Wilson (Elementary Education).

*Selection Committee for Chairman of the Department of Athletic Services:* Willard N. Runquist (Psychology), until June 1978.

*Art Works Committee:* Wilson McCue (Graduate Student, Art and Design), until April 1976.

*Environmental Studies Program Committee:* Bruce Dancik (Forest Science), until June 1978.

*Salaries and Promotions—Appeals Committee:* Lilian Whyte (Educational Psychology), until June 1978.

#### **Use and confidentiality of student files**

Council endorsed the following addition, proposed by the Graduate Students Association, to the GFC policy on Student Files: "Upon request, a student shall have access to any document, other than confidential material, within an official file bearing his or her name. Confidential material is that solicited or released by the student." Such items as letters of recommendation and medical or Student Counselling reports would be included under this definition of confidential material.

This policy will take effect from September 1, 1976.

#### **Access to student data for research purposes**

GFC policy on this matter has been as follows: "Use of Student Records for Research where access to academic records is sought for the purpose of research, such access may be granted by the Executive Committee of General Faculties Council on such terms as may be necessary to ensure the confidentiality of individual student records.

Where access to student records is sought for the purpose of research, such access may be granted by the Executive Committee of General Faculties Council only if the researcher provides mechanisms that will delete student names before data will be collected." (GFC June 23, 1975)

Since the time this policy was made, it has been found too restrictive, in that it precludes agents of the University from making normal administrative studies which can be made only from student records. Therefore Council passed the following addition to the policy:

"Research on student data will be defined as not being within the normal administrative operation of the University. In case of doubt as to what may fall within 'the normal administrative operation of the University,' the GFC Executive will decide."

## **GENERAL FACULTIES COUNCIL**

The regular meeting of General Faculties Council was held Monday, January 26. In the absence of President Harry Gunning, Myer Horowitz, Vice-President (Academic) chaired the meeting.

#### **Council on Student Affairs**

General Faculties Council approved the proposal of the Chairman of the Council on Student Affairs that the students on COSA be nominated by the GFC Nominating Committee rather than by the Students' Union.

#### **Agriculture and Forestry amendment to Calendar**

Council approved the following proposal from the Faculty of Agriculture and Forestry for amending Section 32.5 of the *Calendar* regarding transfer from other programs. "Students transferring into any BSc program offered by the Faculty of Agriculture and Forestry (regardless of whether they are transferring from other programs offered by the Faculty, other faculties of the University of Alberta, other universities or colleges) must meet all of the requirements of the program in which the student is registered, in addition to meeting the residence requirements of the University of Alberta. A student in the Faculty of Agriculture and Forestry will not normally be permitted to register in any two degree programs simultaneously."

#### **Visiting Student Status and Academic Appeal Committee**

Council approved the request of the Faculty of Arts "that no appeal shall lie to the GFC Academic Appeal Committee from a decision of a faculty appeal committee concerning the granting of permission to take final year courses outside the University of Alberta."

While this matter is not expressly included within the GFC committee's terms of reference, neither is it expressly excluded. The Arts Faculty felt that only a faculty could judge effectively whether final year courses, taken at another university, would fit within its own degree requirements.

#### **Academic staff representative on Board**

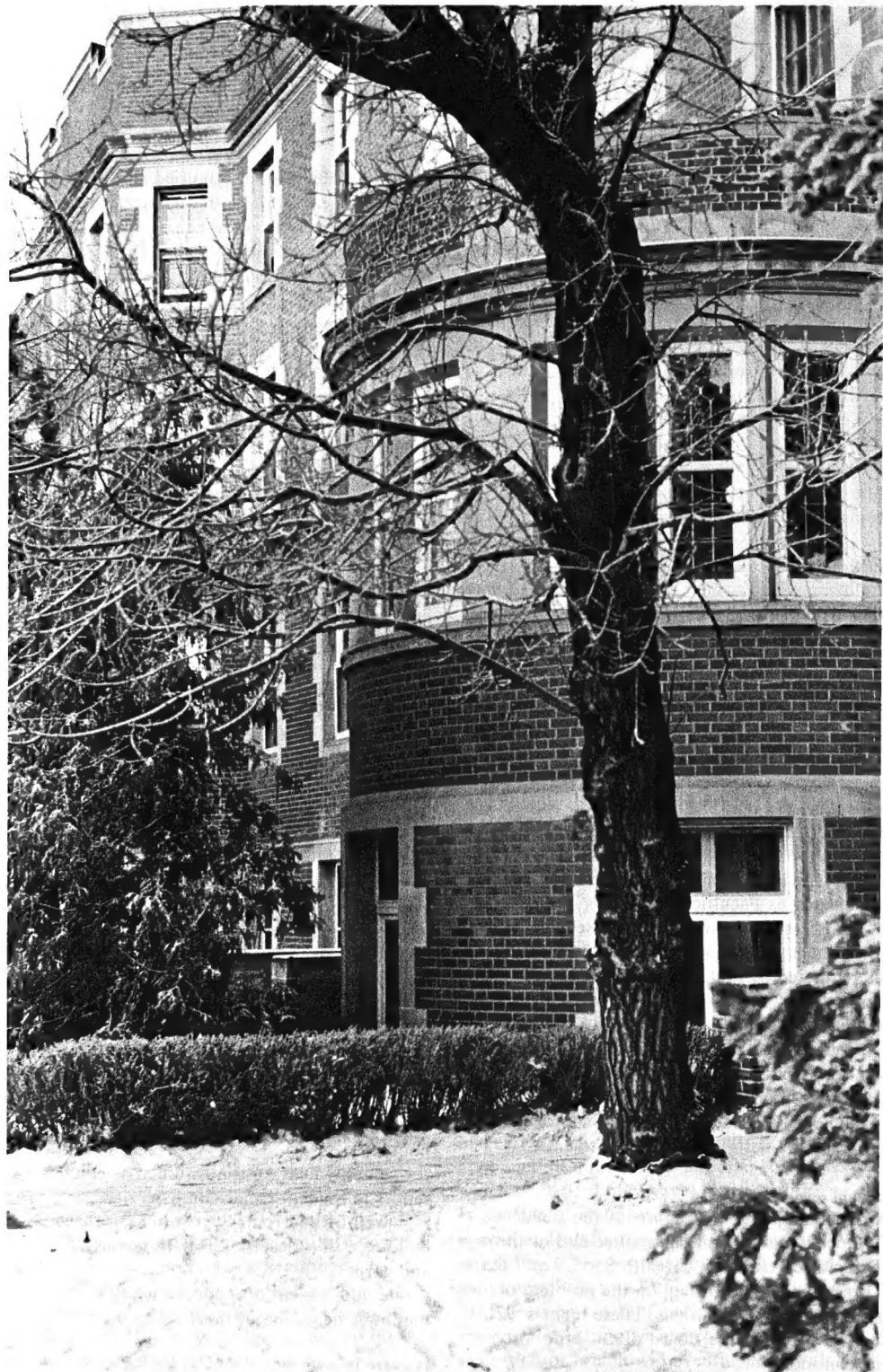
GFC approved the nomination, for appointment by the Lieutenant Governor in Council, of Mary Spencer, Professor of Plant Science, to the Board of Governors, as one of the two representatives of the academic staff on the Board.

Dr. Spencer was chosen in an election among the full-time members of the academic staff.

#### **Articulation Committee composition**

A proposal was approved "that the Deans (or their designees) of the Faculties of Arts, Business Administration and Commerce, Education, and Science be added as full statutory members" of the GFC Articulation Committee.

The main tasks of the committee are to formulate and recommend University policy concerning transfer and credit arrangements



Richard Kerr

with the colleges, to ensure smooth transfer, and to assist the colleges in meeting program requirements. Admitting the four deans as statutory members of the Articulation Committee is intended to improve communication between the faculties most concerned and the committee and to give

direct input from those faculties on matters such as credit transfers which involve internal faculty policy.

A second recommendation, that reducing the number of elected members on the committee be considered, was referred to the Nominating Committee.

#### **Admissions and transfers policy**

Council added its endorsement to that of the Articulation Committee on the "Policy for admission and transfer of credit at Alberta universities based upon work completed at Alberta public colleges and provincially administered institutions." Council's approval was subject to inclusion of interpretive comments and re-wording suggested by the Articulation Committee.

The revised policy, proposed by the Council on Admissions and Transfers of the Alberta Department of Advanced Education and Manpower, is intended for inclusion in a transfer guide for students.

#### **Citizenship and residence requirements**

Following a suggestion from the Chairman of the Alberta Human Rights Commission that the University's guidelines regarding citizenship and residence criteria in admission policies in quota faculties were discriminatory against landed immigrants, council amended the guidelines to include landed immigrants specifically.

#### **Name changes**

Council recommended to the Board that the Schools of Household Economics, Rehabilitation Medicine, Nursing, and Library Science be designated as Faculties.

It also recommended that Household Economics be changed to Home Economics, as requested by that School/Faculty and approved by the University Planning Committee.

Council also approved the recommendation that the Divisions within Rehabilitation Medicine, namely Speech Pathology and Audiology, Physiotherapy, and Occupational Therapy, be designated as Departments.

#### **Sexual assaults**

Council endorsed the reports of the Academic Women's Association Committee and of the Director of University Health Service and the Director of Student Help on the problem of sexual assaults on campus. These reports will be forwarded to the Board of Governors for its consideration.

Both reports included a list of recommendations.

In brief, the recommendations of the Directors of University Health Service and Student Help included.

—the requirement that the Campus Security Force report all cases of sexual or indecent assault of which they become aware to either the University Health Service or Student Help;

—establishment of a close working relationship between the University Health Service and Student Help in regard to assisting sexual assault victims;

—the availability of qualified and experienced women within both services to help victims of sexual assault;

—instruction of nurses within the Lister Hall complex in techniques of dealing with assault victims;

—a campus foot patrol system, possibly carried out by pairs of students, to act as a deterrent; and

—wide publicity for measures taken to deal with the problem of sexual assault.

The Academic Women's Association Committee recommended

—continuation of an educational campaign in *Folio* and *Gateway* on the problem of sexual assaults and the availability of help for victims;

—establishment of a twenty-four hour crisis phone number for sexual assault victims and expansion of University Health Service and/or Student Help to provide twenty-four hour service;

—discontinuation of use by the Campus Security Force of the booklet *About Self-Protection* and rejection of the Philosophy it represents (the booklet seems to imply that it is the victim's fault for being raped);

—employment of more women on all shifts of the Campus Security Force, for both desk and patrol work, to deal understandingly with victims;

—referral by Campus Security of victims of sexual assault to Student Help or the University Health Service;

—installation of more outdoor telephone booths and emergency phones (no dime required) with direct connections to Campus Security, at intervals throughout the campus;

—increased walking patrols, both inside and outside buildings, for the evening and weekend hours;

—employment of more women as counsellors in Student Counselling Services;

—well-lighted routes between major buildings, libraries, SUB, HUB, residences, and carparks;

—establishment of a committee to oversee the implementation of these recommendations.

#### **Increase in promotion standards for Business Administration and Commerce**

Council endorsed the proposals of the Faculty of Business Administration and Commerce "that the standard for promotion within the Faculty of Business Administration and Commerce be raised to 5.0" and "that an equivalent standard be applied in the case of all transfer students from other faculties, colleges, institutions, and universities."

A third proposal, that admission standards be increased to a 65 percent Alberta High School average or its equivalent or better, beginning in 1977-78, was referred to the

#### **Academic Development Committee.**

The purpose behind the requested increases in admission and promotion standards in the Faculty of Business Administration and Commerce is to help effect quotas on student numbers in the Faculty, which is experiencing seriously over-crowded conditions.

#### **Advanced registration**

A letter was received from Willard Allen, Associate Vice-President (Academic), regarding continuation of advanced registration. He pointed out that "For 1976 the estimated direct costs in the Registrar's Budget for advanced registration are between \$40,000 and \$50,000. This is about \$2 per student and can be justified at current provincial minimum wages if it saves the average student an hour of his time."

He added that the Registrar had met with representatives of faculties and schools and that advanced registration had been discussed in at least one Faculty Council (Science). Advanced registration in 1975 has been regarded generally as a success, and the system used for it will continue with no major alterations.

Registrar A.D. Cairns expects that further experience will add small improvements to the system, and welcomes specific suggestions.

#### **Students' Union election rally**

In response to a request from the Students' Union, the time of the Students' Union Election Rally has been changed to Thursday, February 12, from 11 a.m. to 12:30 p.m. Classes are cancelled during that time.

## **EXTENDED TREATMENT PROJECT UNDERWAY**

A research team in the Division of Health Services Administration has just received a \$92,690 research grant from the National Health Research and Development Program, Health and Welfare Canada. The grant will provide funding for the first eighteen months of the proposed twenty-seven month project to devise a classification system for the treatment of patients in long-term care situations.

The research team is headed by K. Bay, Associate Professor in the Division of Health Services Administration. Other members of the team are D. Flathman, Associate Professor; P. Overton, Assistant Professor; and F. Harrison, Health Services Administrator of the Alberta Hospital Services Commission. The project, "Development and validation of a system of patient classification by types of care," is designed to "develop a patient classification system by types of care for valid assessment and appropriate placement of



Richard Kent

patients in extended care and selected acute care settings." Such a study is much needed at present.

The classification system will establish guidelines for determining the needs of patients with a variety of continuing health and social problems (such as the chronically ill and the aged). In addition, the classification system should provide doctors, nurses, and health administrators with the means to determine what kinds of programs of care would be most beneficial to these patients and to determine what kind of care would be most effective and efficient in terms of expense, facilities, and personnel. For example, if a patient's needs can be met best by a home-care program, it would be inappropriate to admit him to a hospital or institution. In such a case, hospitalization would be contrary to the patient's best health interests, and would be more disruptive of his day-to-day living. The existence of a system of guidelines (such as those basic to a patient classification system) through which health professionals can make sound decisions about the type of care patients need may prevent unnecessary expense and may also improve the quality of the care which the individual patient receives.

Other projects that the research team at the

Division of Health Services Administration is carrying out in the same general area are an investigation of geriatric day-care hospitals and an evaluation of the Edmonton home-care program.

## PEOPLE

- Richard Frucht, Associate Professor of Anthropology, has been elected to the Council of the Caribbean Studies Association and presented a paper on the nationalization of the sugar industry in St. Kitts at the CSA annual meeting in St. Lucia, West Indies, during the first week of January.
- D.D. Betts, Director of the Theoretical Physics Institute, will be directing a summer school on critical phenomena and phase transitions to take place at the Banff Centre for Fine Arts, August 22 to September 3, 1976. Approximately twenty speakers and one hundred students from North America and overseas are expected to attend. A grant of 800,000 Belgian francs has been received from NATO for support of the summer school.
- Yar Slavutych, Associate Professor of Slavic Languages, delivered a paper, "Humorous Ukrainian Surnames," at the annual meeting of the American Name Society held in San Francisco. At the University of Minnesota, Minneapolis, he read a paper, "The Poetry of A.N. Granovsky," at a meeting sponsored by the Ukrainian American Congress Committee.
- W.J. Simpson, Chairman of the Department of Pedodontics, Faculty of Dentistry, has been appointed to a three-man national committee which will carry out a week-long quality evaluation of dental treatment performed by operative dental auxiliaries after their first year of activity in the province of Saskatchewan. This committee was formed at the request of the Saskatchewan Minister of Health with the intention of getting an objective evaluation of the program, which will eventually provide free dental care for all the school children of the province. All three members of the committee are from outside the province of Saskatchewan.
- L.R. Gue, Professor of Educational Administration, attended the December 18 to 20 meetings in Toronto of the Leadership Committee for the Fourth International Inter-visit Program, to be hosted by Canada from May 5 to 25, 1978. The three-week seminar will commence with four days in Montreal/Ottawa, move west for ten days of selected educational site visits, and conclude

with a six-day conference in Vancouver. Some 150 participants from at least twenty countries are expected to attend.

■ John King-Farlow, Professor of Philosophy, will be Visiting Professor this summer and fall at the University of New England, Australia.

■ K. Kowalewski, Professor of Experimental Surgery, Faculty of Medicine, is the recipient of the Alfred Jurzykowski Foundation Award in the field of medicine for 1975. Dr. Kowalewski will travel to New York to receive this citation and prize at the Polish Institute of Arts and Sciences in America on January 30.

■ Pierre A.R. Monod, Associate Professor of Romance Languages, has been invited to attend the Second Federal Conference on Multiculturalism in Ottawa from February 13 to 15.

■ G. Fitzsimmons, Assistant Professor of Educational Psychology, conducted a workshop for Industrial Health Nurses in training at Grant MacEwan Community College. The workshop was entitled "The Limits of service and criteria for referral in industrial health counselling."

■ John G. Paterson, Professor of Educational Psychology, conducted a workshop, "Models for teaching and learning," for teachers in Institutional Services, Edmonton Public and Separate School Boards.

■ G.S. Paul, Assistant Professor of Sociology, gave a seminar at Guru Nanak University, Amritsar, India, on the topic of the Sociology of multiculturalism in Canada.

■ M.V. Dimic, Professor of Comparative Literature, gave a lecture in December at the Department of General and Comparative Literature of the University of Paris. The lecture was entitled "The Transition from Neo-Classicism and Enlightenment to Romanticism in South Slavic literatures." Professor Dimic was the chairman of the international editorial committee which published the *Proceedings of the VIIth Congress of the International Comparative Literature Association—Bordeaux 1970*.

## VISITORS

■ Clifford Wright, Director of Primary Studies, Christchurch Teachers College, New Zealand, visited the Department of Elementary Education during the week of January 5. While here, he met with staff and graduate students and served as a consultant to the research group working on the study of classroom teaching.

■ W.P. Alston, Douglass College, Rutgers University, conducted a series of seminars on the topic "Conceptual frameworks for psychology" at the Center for Advanced Study in Theoretical Psychology from January 12 to 17.

■ Thomas J. Sergiovanni of the College of Education, Department of Educational Administration and Supervision, Urbana, Illinois, visited this campus on February 4 and 5. Dr. Sergiovanni has written widely in the areas of school administration and organization and human resources management. The main purpose of his visit was to conduct seminars with the staff and graduate students of the Department of Educational Administration currently involved in a study of differentiated staffing practices in Alberta schools.

M. Gulutsan, Director of the Division. I. Moravcik, Economics, will chair the 3 p.m. session which is open for participants' discussion.

### CUSO INFORMATION SESSION

On Tuesday, February 10 at 8 p.m. in the Social Room of the Jubilee Auditorium, CUSO representatives from Ottawa will conduct a public information session to discuss CUSO programs with interested persons. Margaret Cockman, Health Recruiter, and Dave Merriman, Technical/Business Recruiter, will be in Edmonton for the week of February 9. As well as holding the Public Information Session, they will also meet and speak with interested people. For further information or an appointment, phone the CUSO office at 432-3381.

### CHOIR BEING FORMED

A new choir for boys with unchanged voices (Grades 4 to 9) is being formed by Larry Cook, Assistant Professor of Music. The choir will meet on Saturday mornings from 10:30 a.m. to 11:30 a.m. All interested boys and their parents are invited to the first meeting on Saturday, January 31 at 10:30 a.m. in 1-29 Fine Arts Centre. No previous choral experience is necessary. For more information, phone 482-4068.

### WOMEN'S INTRAMURAL KEEP FIT

Women's Intramural Keep Fit will be held on Mondays and Wednesdays from 12 noon to 1 p.m. in the Fencing Room. The sessions are conducted by Heather Elliott, who specializes in a rhythmical approach to exercise. Everyone is welcome to attend.

### PROPHYLAXIS

The School of Dental Hygiene is accepting patients, both children and adults, for prophylaxis (cleaning of teeth). For more information, please phone 432-4151.

### BOOSTER SERVICE

Holders of University parking permits are reminded that a battery boosting service is available from 3 p.m. to 6 p.m. Monday through Friday (holidays excepted) whenever the temperature drops to -23 degrees Celsius or colder. Please call the Department of Physical Plant at 432-4833 for this service.

### RENAISSANCE BANQUET

The Guild for Medieval and Renaissance Studies will hold its Renaissance Banquet on February 19 at 7 p.m. in the Banquet Room of Lister Hall. Tickets for the banquet must be purchased in advance at the General Office of the Department of English. Admission for members of the Guild is \$9; admission for non-members is \$10. Wine is included by the cost. Dinner music will be provided by the

Edmonton Recorder Society. There will be a mummer's play and singing by the University of Alberta Madrigal Singers as after-dinner entertainment.

#### CREDIT UNION

The University of Alberta Credit Union invites University staff members to drop into WB10 Chemistry Building or to phone 432-3256 for information about the services provided.

#### STUDIES IN FRANCE

Students planning to study in France in 1976-77 should pick up, as soon as possible, a copy of the brochure entitled *Information on University Studies*, which outlines possibilities and regulations for study in France, from the Department of Romance Languages, 102 Arts Building.

#### PETER NEWMAN VIDEO TAPE

The Department of Radio and Television video-taped Peter Newman's seminar/lecture "The Canadian Establishment" which he gave at 3 p.m. on Friday, January 30, in TLB-2 Tory Lecture Theatre. Peter Newman is the editor of *MacLean's Magazine*.

This tape is available in both the Humanities A-V Centre and the Reserve Reading Room of the Cameron Library. Interested persons can obtain it from the tape libraries in these locations and can use the equipment in these areas to view the tapes.

Other tapes presently available in these locations are "Wage and price controls—one month after," "Developing countries on the Polar Seas" by S.M. Hodgson, Commissioner of the Northwest Territories, and "Consumer lost in the market place" by Theodore P. Labuza.

## THIS WEEK AND NEXT

*Listings must reach the Editor by 9 a.m. the Friday prior to publication. Written notification is preferred.*

#### 5 FEBRUARY, THURSDAY

##### Mathematics Colloquium

4 p.m. "Multiple Integral problems in the calculus of variations" by Hanno Rund, Department of Mathematics, University of Arizona. 657 Central Academic Building.

##### Geophysics Seminar

3:30 p.m. "Electrical conductivity studies in Precambrian shields and mobile belts" by J. de Beer, Department of Physics. 636 Physics Building.

##### Classics Seminar

4 p.m. "Pastoral and heroic: some Vergilian

passages in Spenser" by Z.H. Pollock. 1-8 Humanities Centre.

##### Entomology Seminar

4:30 p.m. "The Insect fauna of a sand dune in southeast Alberta" by J.E. Kuster. 245 Agriculture Building.

##### German Film

7:30 p.m. *Der Biberpelz* (1962). Starring Inge Meysel, Ernst Schroder, Willi Rose, and Fritz Wagner. Theatre Room, 17 Arts Building. Admission free.

##### Cinematheque 16 (Gallery Cinema)

7:30 p.m. *A Day in the Life of Ivan Denisovitch*. Downstairs, Edmonton Art Gallery. Admission \$2.

##### Edmonton Opera Association

8 p.m. *Cosi Fan Tutte/Women are like that* (in English). Featuring Johana Meier, Cornelis Ophof, and Lyn Vernon. Jubilee Auditorium. Tickets available at Woodward's stores or by phoning 424-5797.

## 6 FEBRUARY, FRIDAY

##### Women's Studies Sampler

12 noon. "Psychology of sex differences" by Carol Ladan, Research Associate in Psychology. 142 Students' Union Building.

##### Faculty Club

Downstairs. "TGIF Chinook." Roast beef, baked potato, salad and trifle. \$4.35. Entertainment: Dance to a one-man band. Upstairs. Lobster \$11.50. Regular dinner menu. Reservations required.

##### Basketball

6:30 p.m. and 8:30 p.m. Pandas and Golden Bears versus the University of Calgary. Main Gymnasium.

##### Cinematheque 16 (Gallery Cinema)

7:30 p.m. *The Producers* (United States). Directed by Mel Brooks, starring Gene Wilder and Zero Mostel. Downstairs, Edmonton Art Gallery. Admission \$2.

##### Hockey

8 p.m. University of Alberta versus the University of Saskatchewan Huskies. Varsity Arena.

##### Piano Recital

8 p.m. The Department of Music presents a Two-Piano Recital featuring piano students of Helmut Brauss, Professor of Music. Convocation Hall, Arts Building. Admission free.

## 7 FEBRUARY, SATURDAY

##### Hockey

11:30 a.m. Golden Bears versus the University

of British Columbia Thunderbirds. Varsity Arena.

##### Faculty Club

Downstairs. "Club Trattoria." Lasagne, insalata mista, and torta di frutta. \$3.75.

Upstairs. Lobster \$11.50. Regular dinner menu. Reservations required. Entertainment: Gordon Schmidt Band.

##### Basketball

6:30 p.m. and 8:30 p.m. Pandas and Golden Bears versus the University of Calgary. Main Gymnasium.

##### Edmonton Opera Association

8 p.m. *Cosi Fan Tutte/Women are like that* (in English). Jubilee Auditorium. Tickets available at Woodward's stores or by phoning 424-5797.

##### Dance

8:30 p.m. Entre Six performs at the Students' Union Theatre. Students \$3 and non-students \$4. Tickets from the Bay, and at the Students' Union Box Office.

## 8 FEBRUARY, SUNDAY

##### Cinematheque 16 (Gallery Cinema)

2 p.m. *Lawrence of Arabia* starring Peter O'Toole and Omar Sharif. Downstairs, Edmonton Art Gallery. Admission \$2.

##### 'In Touch with U'

And every Sunday. 3 p.m. A program to introduce the University to the community at large. CITV channel 13, cable 8.

##### Student Cinema

7 p.m. only. *Gone with the Wind* (United States, 1939). Starring Clark Gable and Vivien Leigh. Students' Union Theatre. Admission \$1 advance or \$1.50 at the door.

## 9 FEBRUARY, MONDAY

##### Civilisation Series (11)

12 noon. *Romanticism*. Shown in AV L-1 Humanities Centre. Repeat showing at 3 p.m. in L-3. Admission free.

##### Plant Science Seminar

1 p.m. "Rapeseed breeding" by Z. Kondra. 490 Agriculture Building.

##### Anatomy Seminar

4 p.m. "Observations on the epithelium and pleura of the opossum lung during postnatal development" by W.J. Krause, Department of Anatomy, University of Missouri. The talk will involve light microscopy, TEM and SEM. 6-28 Medical Sciences Building.

##### Edmonton Opera Association

8 p.m. *Cosi Fan Tutte/Women are like that* (in English). Jubilee Auditorium. Tickets available from Woodward's stores, or by phoning 424-5797.

**Edmonton Film Society**  
8 p.m. *My Man Godfrey* (1936). Directed by Gregory La Cava. Classics Series. TL-11 Tory Lecture Theatre.

#### 11 FEBRUARY, WEDNESDAY

**Romance Languages Lecture**  
4 p.m. "Time and self in *A La Recherche du Temps Perdu*: a paradigm of human possibility" by Paul Swartz, Professor of Psychology. 17 Arts Building.

**Edmonton Film Society**  
8 p.m. *Grand Illusion* (1937). Directed by Jean Renoir. TL-11 Tory Lecture Theatre. Series tickets available at the door.

**Concert**  
8 p.m. The University of Alberta String Quartet performs at Convocation Hall, Arts Building. Admission free. Sponsored by the Department of Music.

#### 12 FEBRUARY, THURSDAY

**Biomedical Engineering Seminar**  
2:30 p.m. "The Use of a multiwire proportional chamber in the study of axoplasmic transport: a new experimental technique" by R.E. Snyder, Division of Biomedical Engineering and Applied Sciences. 10-115 Clinical Science Building.

**Entomology Seminar**  
4:30 p.m. "The Curse of *Cryobius* and other tales of the Territories" by G.E. Ball, Chairman of the Department of Entomology. 245 Agriculture Building.

**Cinematheque 16 (Gallery Cinema)**  
7:30 p.m. *Jonathan Livingston Seagull*. Downstairs, Edmonton Art Gallery. Admission \$2.

**German Film**  
7:30 p.m. *Wallenstein* (1962). Starring Wilhelm Borchert and Ernst Fritz Fürbringer. Theatre Room, 17 Arts Building. Admission free.

**U of A Mixed Chorus**  
8 p.m. The Mixed Chorus presents its thirty-second annual Spring Concert. Students' Union Theatre. Admission \$2; tonight only, \$1 for those over 65 and under 12. Tickets available from the Bay, the Students' Union Box Office in HUB, and from Chorus members.

#### 13 FEBRUARY, FRIDAY

**Women's Studies Sampler**  
12 noon. "Women's History as an academic discipline" by Pat Prestwich, Assistant Professor of History. 142 Students' Union Building. Everyone is welcome.

**Faculty Club**  
*Downstairs*. "Jinx Night." Hindenburg stew, Frank slide salad, Titanic pudding, and "vino Vesuvius" by the glass. \$3.75. Entertainment: Lucky Rossall and his Born Losers.  
*Upstairs*. Regular dinner menu. Reservations required. Entertainment: Gordon Schmidt Band.

**Cinematheque 16 (Gallery Cinema)**  
7:30 p.m. *First Love*. Directed by Maximilian Schell, starring Dominique Sanda and Maximilian Schell. Downstairs, Edmonton Art Gallery. Admission \$2.

**Volleyball**  
8 p.m. University of Alberta versus the University of Victoria. Main Gymnasium.

**U of A Mixed Chorus**  
8 p.m. The Mixed Chorus presents its thirty-second annual Spring Concert. Student's Union Theatre. Admission \$2. Tickets available from the Bay, the Students' Union Box Office, and from Chorus members.

#### 14 FEBRUARY, SATURDAY

**Faculty Club**  
*Downstairs*. "Valentine Tête à Tête." Chili con carne, hot buns, salad, and brownies. \$3.50. Hot toddies available at \$1.50.  
*Upstairs*. Regular dinner menu. Reservations required. Entertainment: Gordon Schmidt Band.

**University Concert Hall**  
*And every Saturday*. 6:45 p.m. A radio program of music from the University of Alberta on CKUA AM and FM.

**U of A Mixed Chorus**  
8 p.m. The Mixed Chorus presents its thirty-second annual Spring Concert. Students' Union Theatre. Admission \$2. Tickets available from the Bay, the Students' Union Box Office, and from Chorus members.

**Edmonton Symphony Orchestra**  
8:30 p.m. The ESO, conducted by Pierre Hétu and featuring Toshiya Eto, violin, performs works by Mendelssohn, Schubert, Ravel, and Beethoven. Jubilee Auditorium. Tickets available from the Bay Box Office or the Symphony Box Office, phone 433-2020.

#### EXHIBITIONS AND PLAYS

**Citadel Theatre**  
*Until 21 February*. *The Sunshine Boys* by Neil Simon, a play about two former vaudeville entertainers who, though they are no longer friends, must get together again. Starring Guy Sanvido and Mickey Costello. Citadel Theatre. Performances Tuesday through Saturday at 8:30 p.m. with Sunday performances at 2:30 p.m. and 7:30 p.m. Casual tickets available by phoning 424-2828.

**Provincial Museum**  
*Until 15 February*. "Winter Outdoors—Yesterday and Tomorrow," a feature exhibit emphasizing the many winter activities available in Alberta. Feature Gallery 2. *Continuing*. "Documentary Heritage," a long-term exhibition displaying valuable manuscripts and documents in the Provincial Archives of Alberta. Archives Gallery.

**Theatre 3**  
*Until 7 February*. *The Glass Menagerie* by Tennessee Williams. Centennial Library Theatre. Performances Tuesday through Saturday at 8:30 p.m. with Sunday Performances at 2 p.m. and 7:30 p.m. Tickets available from the Bay Box Office or by phoning Theatre 3 at 426-6870.

**Studio Theatre**  
*12 February to 21 February*. *The Game of Love and Chance* (1730) by Marivaux, a comedy about the discovery and effects of love. Studio Theatre, Corbett Hall. Performances are at 8:30 p.m. nightly with a Saturday matinee on February 14 at 2:30 p.m. Tickets are \$2.50 for non-students and free to students with University ID cards. Available from 3-146 Fine Arts Centre or by phoning 432-1495.

**Edmonton Art Gallery**  
*Until 8 February*. "Lyndal Osborne," a one-person exhibition featuring large air-brush drawings.

*Until 8 February*. "Gary Olson," a one-person display of larger-than-life graphic portraits.

*Opening 13 February*. "Jones/Will," a display of works by two Albertan graphic artists, Marvin Jones and John Will.

*Opening 13 February*. "Roger Fry Paintings and Drawings," an exhibit of works by the influential twentieth century art critic.

**Theatre Francais d'Edmonton**  
13, 14, 15 et 20, 21, 22 février. *Deux Femmes pour un Fantome* et *La Babysitter* de René de Obaldia. Collège Universitaire Saint-Jean. Pour renseignements et billets: 469-0829.

**Citadel Too**  
*Opening 16 February*. *Endgame* by Samuel Beckett. Starring John Neville. 10018 102 Street. Performances Monday through Saturday at 8 p.m. Admission \$3 regular, and \$2 for students. Tickets are available from the Citadel Box Office, phone 424-2828.

**MFA Directing Laboratory Production**  
*The Herne's Egg* by W.B. Yeats. Directed by Phil Wagner, designed by Doug Welch, with music by Allan Bell. Performances are at 8:30 p.m. on Saturday, February 7, and at 2:30 p.m. and 8:30 p.m. on Sunday,

February 8. Production Lab Room, 1-63 Fine Arts Centre. Tickets are free and available from 3-146 Fine Arts Centre.

## GRADUATE SCHOLARSHIPS AND AWARDS

*All inquiries regarding the following should be directed to L. Henderson, Administrator of Student Awards, 219 Central Academic Building, 432-1495.*

### Gulf Oil Canada Limited Graduate Fellowships

**Value:** \$5,000, \$4,000 to be paid to the successful candidate and \$1,000 to the relevant department of the receiving university. **Where tenable:** any Canadian university or college which is a member, or affiliated with a member, of the Association of Universities and Colleges of Canada. **Level of study:** graduate. **Field of study:** Business management studies, computer sciences, mathematics, geology, geophysics, engineering, physics, chemistry, ecologically-oriented studies and other sciences related to the petroleum industry. **Number:** nine. **Duration:** one year. **Conditions:** Canadian citizen or have held immigrant status for one year prior to submitting application. Candidates must be graduates of a Canadian university or college which is a member or affiliated with a member of the AUCC. Obtain brochure for further conditions. **Closing date:** March 1, 1976. **Further information and application forms should be requested from:** Awards Officer, National Programs Division, Association of Universities and Colleges of Canada, 151 Slater Street, Ottawa, Ontario K1P 5N1.

### Research Fellowship

**Emergency Planning Canada/Association of Universities and Colleges of Canada**  
**Value:** \$5,800 per year plus tuition and fees. **Where tenable:** Disaster Research Centre, Ohio State University, Columbus, Ohio. **Level of study:** post-graduate. **Field of study:** Sociology at the Disaster Research Centre. **Duration:** may be held for a maximum of three years. **Conditions:** the purpose of the fellowship is to encourage disaster research in Canada by developing a core of qualified professionals in this field. At the Disaster Research Centre, they have an opportunity to participate in all phases of ongoing research, while at the same time, actively pursue studies in the Department of Sociology leading to a PhD. **Closing date:** March 1, 1976. **Further information and application forms should be requested from:** Awards Officer, National Programs Division, Association of Universities and Colleges of Canada, 151 Slater Street, Ottawa, Ontario K1P 5N1.

### The Steel Company of Canada Limited Graduate Research Fellowships in Metallurgy

**Value:** \$4,000 to the winner with \$1,000 to the department of the university in which research will be carried out. **Where tenable:** Canadian universities having a qualifying course in metallurgical research. **Level of study:** graduate. **Field of study:** Metallurgy. **Number:** four new awards each year. **Duration:** one year. **Conditions:** Canadian citizens or have held landed immigrant status for one year prior to submitting application. For further information see brochure. **Closing date:** March 1, 1976. **Further information and application forms should be requested from:** Awards Officer, National Programs Division, Association of Universities and Colleges of Canada, 151 Slater Street, Ottawa, Ontario K1P 5N1.

### Bell Canada Fellowships

**Value:** \$3,500. In addition, an amount of \$1,500 is given to the university concerned to pay for the

Fellow's tuition and help defray expenses associated with the department in which the Fellow is registered. **Where tenable:** any Canadian university or college which is a member, or affiliated with a member, or the Association of Universities and Colleges of Canada. **Level of study:** graduate. **Field of study:** there is no restriction as to the nature of the studies which a Fellow may pursue; preference is given, however, to those disciplines which are relevant to the scientific, political, social, and economic needs of Canada. **Number:** eight. **Duration:** twelve-month period beginning in the academic year in which fellowships are awarded. A maximum of four awards may be renewed for a second year. **Conditions:** must be proceeding toward a Master's degree; and be a graduate of a university or college with standards accepted by the AUCC; and be a Canadian citizen or have held landed-immigrant status for one year immediately prior to submitting an application to the AUCC. **Closing date:** March 1, 1976. **Further information and application forms should be requested from:** Awards Officer, National Programs Division, Association of Universities and Colleges of Canada, 151 Slater Street, Ottawa, Ontario K1P 5N1.

### Bilingual Exchange Fellowship in Business Administration

#### Lever Brothers Limited

**Value:** \$7,000, over two years plus summer employment. **Where tenable:** Canadian universities. **Level of study:** Business Administration leading to an MBA degree. **Field of study:** Business Administration. **Number:** two. **Duration:** two academic years. **Conditions:** Canadian citizens. Preference given to those under 30 years of age. **Closing date:** March 1, 1976 — sent in quadruplicate. **Further information and application forms should be requested from:** Awards Officer, National Programs Division, Association of Universities and Colleges of Canada, 151 Slater Street, Ottawa, Ontario K1P 5N1.

### Department of National Defence Scholarships and Fellowships Program

**Association of Universities and Colleges of Canada**  
**Value:** fellowship is \$7,000, plus academic fees, and additional; scholarship is \$4,500, plus academic fees. **Where tenable:** must be suitable to the program of work to be undertaken. **Level of study:** graduate. **Field of study:** National and International aspects of security, studies of strategic theory, alliances and United Nations, civil-military relations. **Number:** variable. **Duration:** fellowship—one year; scholarship—one year but may be renewed. **Conditions:** Canadian citizens. Fellowship candidates must hold a PhD degree; scholarship candidates must hold an Honors Bachelor's degree. **Closing date:** March 1, 1976. **Further information and application forms should be requested from:** Awards Officer, National Programs Division, Association of Universities and Colleges of Canada, 151 Slater Street, Ottawa, Ontario K1P 5N1.

### Teleglobe Canada Fellowship

**Value:** \$4,000 to be paid to the candidate and \$1,000 to the relevant department. **Where tenable:** any Canadian university or college which is affiliated with a member of the Association of Universities and Colleges of Canada. **Level of study:** graduate. **Field of study:** engineering, physics, chemistry, computer science, social sciences, law, administration, etc., but preference will be given to candidates whose courses are related to international telecommunications. **Number:** one. **Duration:** one academic year but successful candidates may reapply. **Conditions:** Canadian citizens or have held landed immigrant status for one year prior to submitting application. Graduate of a Canadian university or college affiliated with the AUCC. For further information obtain brochure. **Closing date:** March 1, 1976. **Further information and application forms should be requested**

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**Size and rates:** the basic unit size is 45 agate lines x 15 picas (3 1/4" x 2 1/2"). The full page is divided into 9 such units, any combination of which is available at a cost of \$20 per unit. Half pages cost \$100. A professional/business card unit (2 1/2" x 1 1/2") is available at a cost of \$12. Discounts are offered for extended runs; please enquire.

**Other specifications:** half-tones (100-line screen or less) are acceptable; no color or bleeds. Camera-ready copy is preferred; there is a charge of 15c per word for typesetting, and \$5 per line for design of work which is not camera ready. Deadline for submission is one week prior to publication (Thursday, 4 p.m.) for camera-ready copy; 10 days for all other advertising copy. Positioning is at the discretion of the editor.

**Contact:** Richard Kerr or Esther Fraser, 326 Assiniboia Hall, The University of Alberta; telephone 432-4991.

from: Awards Officer, National Programs Division, Association of Universities and Colleges of Canada, 151 Slater Street, Ottawa, Ontario K1P 5N1.

**Canadian Overseas Telecommunication Corporation**  
Value: \$5,000-\$4,000 to be paid to the candidate and \$1,000 to the relevant department. Where tenable: any Canadian university or College which is affiliated with a member of the Association of Universities and Colleges of Canada. Level of study: graduate. Field of study: engineering, physics, chemistry, computer science, social sciences, law, administration, and others. Number: one. Duration: one academic year but may reapply. Conditions: Canadian citizens or have held landed immigrant status for one year prior to submitting application. Graduate of a Canadian university or college affiliated with the AUCC. Closing date: March 1, 1976. Further information and application forms should be requested from: Awards Officer, National Programs Division, Association of Universities and Colleges of Canada, 151 Slater Street, Ottawa, Ontario K1P 5N1.

## POSITIONS VACANT

### NON-ACADEMIC STAFF

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly.

Clerk Typist I (\$3.33-\$3.80 per hour)—Office of the Comptroller; Payroll Division (half-time), Office of the Comptroller

Clerk Steno I (\$505-\$599)—Surgery

Clerk Typist II (\$505-\$627)—Extension; Parking Services

Clerk Steno II (\$527-\$653)—Secondary Education; Faculty of Graduate Studies and Research; Business Administration and Commerce

Library Clerk II (\$527-\$653)—Extension Library

Clerk Typist III (\$576-\$713)—Personnel Services and Staff Relations

Clerk Steno III (\$599-\$744)—Comparative Literature (term); Mineral Engineering; School of Household Economics; Investment Office (term); Extension; Agriculture and Forestry, Dean's Office; Physics; Educational Psychology; McLaughlin Examination and Research Centre (trust)

Data Entry Operator I (\$599-\$744)—Computing Services

Student Record Processing Clerk (\$627-\$779)—Faculty of Graduate Studies and Research

Secretary (\$683-\$853)—Computing Sciences; Physical Plant

Administrative Clerk (\$713-\$891)—Chemistry

Typographical Trainee (\$505-\$627)—Duplicating

Typographical Tradesman I (\$653-\$814)—Duplicating

Biochemical Technician I (\$713-\$891)—Surgical Medical Research Institute

Technician-Technologist I (\$713-\$1,020)—Pediatrics

Electron Microscope Technician (\$713-\$891)—Botany (trust)

Photographer II (\$713-\$891)—Audiovisual-Media Centre, Education

Computer Operator I (\$744-\$932)—Computing Services

Biochemical Technologist I (\$814-\$1,020)—Cancer Research Unit (trust)

Technologist I (\$814-\$1,020)—Sociology

Biology Technologist I (\$814-\$1,020)—Genetics

Electronics Technician II (\$853-\$1,068)—Physical Education

Electronics Technician II (\$975-\$1,225)—Physics; Civil Engineering

Projects Estimator (\$1,118-\$1,406)—Physical Plant

## PERSONAL NOTICES

All advertisements must be received by 9 a.m. the Friday prior to publication. Rate is 15 cents per word for the first week, and 5 cents per word for subsequent weeks ordered before the next deadline. Minimum charge is \$1. Ads must be paid in advance. We regret that no ads can be taken over the telephone. For order forms or further information, telephone 432-4991.

### Accommodation available

Thinking of selling your home? Today's real estate market fluctuates. Make sure you receive top value. Call a professional. Call Ross Lizotte, Buxton Real Estate Ltd., 436-1140, 426-5880, extension 990.

Five acres, Lot 6744, about two miles north of Simon Fraser University on north side of Burrard Inlet. Located at 500-foot elevation in Belcarra Park, 3,000 feet south of Bedwell Bay. View is to west and north. Price, \$37,500 (increases after March 1 to \$41,000). Contact Montreal Trust, Real Estate Division, 466 Howe Street, Vancouver. Attention G.C. Barker, (604) 688-4411 or (604) 266-7028 (res.).

For sale—Garneau re-decorated two-bedroom bungalow; large living room, two bedrooms in basement. Garage. Asking \$62,500. Call Maxine Tipper, Weber Bros. Realty Ltd. 436-2310, 435-7103.

Ischia, Italy—room with 3 beds, balcony, available in picturesques fishing port for holiday or longer rental. Shared bathroom, kitchen and patio. Two persons. \$10 per night; three persons, \$13.50. 432-3887.

For sale—condominium 4 months old. 3 bedrooms, large master bedroom, 1/2 bath, walk-in closet. Shag throughout. Carport. Millwoods. 462-2035.

For rent—Mills Woods, three-bedroom condominium with carport, fridge, stove and dishwasher. Fully carpeted. Children welcome. Rent \$400. Phone days, 432-5766; evenings, 435-6361. Ask for Anne.

For sale—Riverbend, deluxe two-bedroom condominium. 1,000 square feet; 1 1/2 baths; luxurious carpet throughout; French doors from large living room to balcony; five appliances; covered parking. Large mortgage, \$47,500. Principals only. 459-8763.

For rent—May to August 1976, furnished three-bedroom bungalow; finished basement, study. Lendrum. \$350/month. Phone John Eagle, 432-3535 or 435-8187 evenings.

Wanted—woman to share three-bedroom house with two others. Rent \$125. 435-0398, evenings.

### Accommodation wanted

\$50 reward if you can find me a suitable house to rent within walking distance of campus; March 15 or April 1. Call 452-2146 evenings for details.

Wanted to rent—furnished 3-bedroom home near University, beginning April, May or June 1976 for 12 to 15 months. Woman physician just completed specialty training. 3 children. 435-5988 evenings.

### Goods and services

Low fare to the Orient; departing Vancouver daily. Contact Eric Choi, 425-0554.

Typing, fast, accurate service. Phone Georgina Campbell, 489-4810 evenings.

Plumbing—for estimates on basement bathrooms, repairs, gasfitting, etc., call 465-7079.

Will type theses, manuscripts, etc. Experienced typist. Phone 459-5276.

Peking, Shanghai food. Delicious, inexpensive. Simple surroundings. Shanghai House, 6525 111 Street. 435-7622.

Provide a creative environment for your children (2 1/2-4 1/2) at Green Circle Pre-school. Located at McKernan School, 11330 76 Avenue. Mornings only. Openings available. Iris Boston, 434-7086.

For sale—one pair Yamaha 190 skis with Gertsh binding, \$70. Also one pair 190 skis with cable binding, \$20. Phone Debby, evenings 433-6213. For sale—54" mattress, clean; slat spring, \$40. 489-0668 evenings.

Wanted—experienced interviewer to do sociological research. 432-5451.

Springhill Parent Co-op Nursery has vacancies for 3 and 4-year olds. Program focuses on socialization and learning through play and experience with wide variety of materials and activities in enriched environment. As a co-operative, parents are actively involved in the program. Hours: 9-11:45; 1-3:45. School closed during lunch hour. No lunch or noontime supervision. Call Marybeth, 436-3472 or Bonnie, 452-2212.

Hawaii—luxury vacation condominiums for those who have made sensible investments in the past, for those who want to make a wise investment in the future, for those who enjoy, want, and can afford the best things in life and leisure activity. Charles Sauer, Carman Realty, 433-6665, 429-1781.

Wedding gowns, professional designer; original design or pattern. 469-5372.

Manuscripts, theses neatly typed. Faculty references. Dorothy Woslyng, 434-0675.

Stereo consultants specializing in speaker design and construction. We can save you money. Phone 432-0572.

For sale—1936 MG sports car, at present in Britain, but willing to export to Canada. 435-6654.

Typing Associates—a quality typing service for theses, manuscripts, reports. Carbon ribbon; no erasures. Shannon, 462-3825 or Pat, 482-6611 after 5 p.m.

Fast reliable income tax preparation. Phone 429-1304.

For sale—quality enlarger lens, new 50mm Schneider Componon. \$100. Phone Richard 432-4991, days, 426-3241 evenings.

Samoyed puppies, registered; dam and sire certified no hip dysplasia. Reasonably priced. Phone 452-9802.

Fireplaces built to your design or mine. Phone 475-9847 weekdays after 6.

Drs. LeDrew, Rowand, Jones, Rooney, Bain and Associates

## Optometrists' Clinic

Campus Branch, HUB Mall  
8922 112 Street, 439-5878

## Social Worker

Required for sectarian family agency work under supervision as caseworker. Master's degree or equivalent in Social Work. Salary commensurate with qualifications and experience. Duties to commence July 1, 1976. Apply in writing Jewish Family Services, 606 McLeod Building, Edmonton.